

A Record of  
Continuous News Service  
For 47 Years

# The TECH

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Official  
Undergraduate News Organ  
of M. I. T.

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## CORPORATION XV VISITS FACTORIES DURING VACATION

Twenty-five Men go to Hartford and More Meet Group in New York

### SEE SHOWS AT NIGHT

Firms Provide Guides to Conduct Business Students Through Industries

Members of Corporation XV went on a trip to New York during the mid-term vacation to visit some of the large industrial firms. The group left Boston on Sunday evening, January 27, and after a day in Hartford spent the rest of their three day trip in New York. Many joined the group at various places on the trip and the greatest number at one time was 31.

Riding on a private car to Hartford the business students played bridge until they got to the city. The following morning the group went by private bus to the Cheney Silk Mills in South Manchester, Connecticut, where silk ties, scarfs, cloths and printed material are produced from the raw silk as it comes from Japan. Special guides led the party through the numerous departments and the employment bureau, the testing laboratories, and the recreation facilities were explained. The printing of silk fabrics was a process which interested the students due to its unusual hand-work.

### Airplane Motors Roar

Testing the airplane motors at the Pratt and Whitney Corporation created a tremendous din and the afternoon visit was accompanied by a loud roar. The castings of the different parts of the airplane motors were ground on the most modern of milling equipment in this factory and after being tested time after time were sent to the assembling room. The engineers were shown the extreme perfection of the machine tool instruments and the finished product

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## AIRCRAFT SAFETY IS SCHOLARSHIP TOPIC

Prize to be Awarded for Best Essay on Transportation

The James Means Memorial Prize, consisting of a medal and a sum of money which may be added to defray tuition expenses for graduate work in Aeronautical Engineering, will be awarded to the student enrolled in the Institute who prepares the best paper on the safety and reliability of aircraft transportation as compared with other means of transportation.

Each contestant is to select his own title and must enclose a bibliography. The papers are to be 3000 to 4000 words long, typewritten on one side of a sheet of 8½ by 11 paper. The undergraduate competing must write under an assumed name and hand in his own name together with his pen name in a sealed envelope. The essay and the envelope must be enclosed in a large plain envelope, marked "Paper for James Means Memorial Prize," and handed in to Room 33-307 before one o'clock March 16.

The judges are, Dr. James H. Means, '06, donor of the prize, Professor Charles H. Chatfield, '14 and Professor Henry G. Pearson.

### In Memoriam

James Phinney Munroe '82, secretary of the Corporation, died at the age of 67 of influenza at the Charlesgate Hospital. He was secretary of the faculty from 1882 to 1889 and later president of the Alumni Association. He was the managing editor of the Technology Review from 1899 to 1908. The funeral will be held tomorrow.

## Expert to Tell of Modern Means For Television

J. O. Perrine of A. T. and T. Will Give Practical Demonstration at Technology

Speaking on "Television", Dr. J. O. Perrine of the American Telephone and Telegraph Company will present an unusual opportunity next Monday, for those interested to learn of the recent developments which have brought Television to a practical stage, not only commercially but for the amateur.

Dr. Perrine will present the lecture in Room 10-250 from 4 to 5 o'clock for students and 8 to 9:30 o'clock for engineers in the vicinity of Boston. The evening meeting is being held under the auspices of the Institute and the Society of Illuminating Engineers.

In his lecture, Dr. Perrine will demonstrate the most recent developments in Television. He will use his own demonstration apparatus in addition to some that the Institute will provide to show the physical aspects of this new engineering development. Dr. Perrine is noted as a speaker who can talk on a technical subject in non-technical language, a fact that should make the lecture interesting to the amateur.

Dr. Perrine is a graduate of Iowa University and received his doctor's degree from Cornell. He taught at Michigan University, Cornell, and Yale before becoming a member of the Development and Research Department of the American Telephone and Telegraph Company, and has been intimately connected with the company's efforts to develop a practical method of television.

## TECH SHOW RESUMES WORK ON PRODUCTION

Tech Show 1929 started the new team's activities by having pictures of the cast of chorus taken in full costume in Room 11-004, Monday afternoon at 3 o'clock. Rehearsals for both of these departments will continue five nights a week until February 21.

Tickets for both the Junior Prom and the Show went on sale Monday and up to the present time about 125 signups have been sold. Tickets for the performances of "A Tech Riot" at John Hancock Hall on the evenings of March 1 and 2 will go on sale next week at \$1.50 for orchestra seats and \$1.00 for balcony seats. Seats for the first performance at the Statler will not be reserved.

Under the direction of Dean M. Fuller of the English department, the Dramashop will put on a skit entitled "Action". This will be included in the show. The management of the Show takes great pleasure in announcing the return to active duty of Richard J. Street '31, Music Manager, who was absent from the Institute last term with a sprained shoulder.

## LIMITS OF AVIATION SUBJECT OF LECTURE

Faculty Club to Hear Address by Mr. Bruce Leighton

"The Present Limits of Aviation" is the subject of an address to be given before the Faculty Club at a luncheon meeting held in the Faculty Dining Room at Walker at 12 o'clock today.

The speaker is Mr. Bruce G. Leighton, connected with the Wright Aeronautical Corporation, and a former Lieutenant Commander in the United States Navy Bureau of Aeronautics, where he had charge of the division of aviation engines. In that capacity he assisted in the development of the modern air-cooled engine used in naval aircraft, and did much in bringing the naval aviation service to the high state of efficiency which it has attained. In view of the remarkable progress made in aviation during the past few years, Mr. Leighton's subject is especially timely and interesting.

## ENGINEER TALK ON AERONAUTICS

Professor Edward Warner Will Discuss General Aspects of Aeronautics

Celebrating twenty-five years of flying, the Affiliated Technical Societies of Boston will hold its annual engineer's meeting and dinner with speakers of national repute at the Boston Chamber of Commerce, Federal and Franklin streets this afternoon and evening.

At present the schedule includes luncheon at 12:30 o'clock followed by a technical session until 4:45 o'clock. Jerome C. Hunsaker '12, vice-president of the Goodyear-Zeppelin Corporation who spoke at the Institute recently will speak on "Lighter-Than-Air Ships". Mr. Hunsaker was formerly a Commander in the United States Navy and was a former instructor at Technology. "Airplanes" will be the subject of a talk by Professor Joseph S. Newell, '19, of the civil engineering department, B. G. Leighton of the Wright Aeronautical Corporation and formerly a Lt. Commander in the Navy will discuss "Engines". Lt. Arthur I. Ennis, U. S. Air Corps, Washington, D. C., will speak of "Airports and Their Equipment."

Dinner at 6:30 O'clock. Dinner will be served at 6:30 o'clock. Professor Edward P. Warner '17, Assistant Secretary of Aviation, U. S. N., will discuss "General Aspects of Aviation." "Developments in Commercial Aviation" will be presented by Colonel Paul Henderson, vice-president of Trans-Continental Air Transport and of National Air Transport Companies. Lt. Reginald D. Thomas, representative of the Navy at the Institute and first winner of the Schiff Trophy for safety in flying, will speak on "Opportunities for Increasing Safety in Flying." All members of the Institute are invited to attend the luncheon which will cost \$1 and the dinner which costs \$4.

## LIBERAL CLUB MAKES DRIVE FOR MEMBERS

Secretary of Club to be Chosen at Meeting Next Week

The first meeting of the Liberal Club this term will be held the latter part of next week and will be a business meeting at which a secretary will be chosen. The speaker for the coming meeting will be announced and an open discussion will follow. The Liberal Club has launched a drive for new members and wishes those who are interested in the discussion of present day topics and problems to be present at the next meeting.

The Liberal Club expects to hold a symposium on American versus European university methods to bring into the open the recent discussion following an editorial in THE TECH. The discussion of this subject has more or less between individuals and it is hoped that many will give their views on the subject.

## Drive for New Staff Members in All Departments of THE TECH Starts Today

Starting today a drive for new members for the various positions in the news and business rooms of THE TECH will begin and will last until Wednesday, February 13, at which time the campaign will close with a smoker in the Faculty Dining Room of Walker Memorial for all candidates and staff members. This competition is open to all students at the Institute and positions for new men are open in the news, features, sports and advertising departments of THE TECH.

At the same time a competition for the Associate Board position in the senior year. Several second year men tion is open to sophomores and usually leads to a Managing Board position of Features Editor will start. This position is needed in this competition as there are very few men out for this place at the present time. Although new men will be welcomed in the business department of the paper the campaign is being conducted principally for the purpose of getting men in the news, features, and sports departments in which there is a scarcity of members at this time.

## Signups for Junior Prom and 1929 Tech Show To Close Today

### Technique Sends Free Lances Out For 1929 Signups

Five Hundred Subscriptions Are Secured from Students in Two Days

About 500 students have signed up for their copy of the 1929 Technique to date. The annual signup campaign for the year book opened on Monday morning in the Main Lobby and throughout the halls of the Institute. By means of the free lances selling signups in the halls it is expected that every student will be reached by an agent. In addition the Technology Cooperative Society has aided with a window display for Technique.

All those who sign up for the Annual before the end of the week will save a dollar on the final cost of the book. This is the purpose of the campaign and the signups which cost one dollar may be redeemed during the latter part of March for three dollars making the total cost of the year book four dollars. After this week the cost of the book will be five dollars.

Those freshmen who obtain their signups through the combination offer sponsored by the Pi Delta Epsilon Fraternity may obtain their signup stubs by calling at the Technique Office.

## TECHNOLOGY STATION GETS BYRD'S VESSEL

Operating on a frequency of 7290 kilocycles, the Institute's radio experimental station has kept in constant communication with the "Eleanor Bolling," the supply ship of Commander Richard E. Byrd's Antarctic expedition, as it made two trips between the Ice Barrier and Dunedin, New Zealand.

A total of nearly 3000 words consisting of personal messages from members of the crew to their relatives and friends and reports from the officers in command to their headquarters in this country, were handled by the station. The ship is now at the barrier in continual daylight. The operating distance was 9000 miles and the ship worked on a frequency of 9090 kilocycles.

The Institute's station, WIXV is operated under the Communication Division of the Department of Electrical Engineering at Round Hill Mass on the estate of E. H. R. Green.

## 125 SIGNUPS ARE OBTAINED IN TWO DAYS CAMPAIGN

Committee Announces Selection of Patrons and Patronesses for Annual Ball

### 300 EXPECTED TO ATTEND

Today will be the last opportunity to signup for those who wish to attend the Junior Prom on February 21. Approximately 125 students have signed up in the first two days of the campaign. It is expected that the total signups will exceed last year's total of 150. Agents will be in the halls to receive signups as during the last two days.

Redemption day will be announced in a later issue of THE TECH as the definite date has not been decided. It will probably be a few days before the Prom. At this time the remainder of the total cost of \$15 is to be paid.

Those who do not signup in the present campaign, may secure tickets to the Prom by paying the total cost of \$15 on redemption day. At this same time, seating arrangements for the dinner will be made. Although Juniors have received no preference in the signups, they will have the preference in the seating arrangements.

As previously announced, the Prom will be held in the Main Ballroom of the Hotel Statler and will be preceded by the Tech Show of 1929. "A Tech Riot." The committee is making arrangements to take care of a larger crowd than attended last year, as it

(Continued on Page 4)

## DEBATING TEAM WINS FOURTEENTH VICTORY

Technology Defeats Lafayette and Washington Universities

Technology's Debating Team won their 13th and 14th consecutive meet on the four-day tour in the South during the mid-term vacation. George Washington University in Washington, D. C. was defeated by the engineer debaters by a unanimous decision on February 2. The second victory was at the expense of Lafayette University in Easton, Pennsylvania on the following day by a 2 to 1 decision.

Along with Solomon Horwitz '29 and Paul V. Keyser '29, the first and third speakers of the team, a new man, Thomas W. MacKesey '31, who won one of the Pinkham scholarships to the Institute, was on the team. The team took the negative side of the question which was: Resolved: That the government should have the ownership of and develop the sources of hydro-electric power in the United States.

Professor Dean Fuller is the coach of the team and the continuous victories for the last few years are partly due to his efforts. The freshman debating team has been giving the Varsity practice and will start on their own debates in the near future.

## TECHNOLOGY REVIEW SOLD BETWEEN TERMS

The February issue of The Technology Review made its appearance during the recent vacation. The two major articles are "Child Health Promotion" by Clair E. Turner '17, and "Disease Conditions and the Ductless Glands" by Allan W. Rowe, '01. Professor Turner who is a Professor of Biology and Public Health at the Institute, relates his experiences as Director of Health Education Studies at Malden.



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In charge of this issue:

E. S. Worden, Jr. '31

S. R. Fleming, '32

### PEACOCK AIRS

TO judge from the almost complete lack of freshman ties, the Class of '32 was sore hit by examinations. If appearances mean anything, about sixty percent of the large group are no longer in residence. But the records show that few of them left—they are too low in class spirit to display their emblem. So utterly lax have they grown, in fact, that no longer do they even offer the lame excuse, "It's being cleaned" to explain their disregard of the Institute Committee's dictum. They simply don't bother to wear them.

Those rules, freshmen, were adopted after considerable thought, and were designed for your good. Their success last year was signal—the simple expedient of saying "Hello" in the corridors increased the good fellowship towards which we are all striving and made very worth-while contacts for the first year men. The cardinal-and-gray ties were to make for a unity of the class, and they fulfilled their purpose admirably.

Ever since their defeat of the Sophomores in the Field Day meet, the freshmen have been getting rather "Cocky", to use very appropriate slang. They were good on that day, but everyone gave them credit for it, never thinking that the matter would so affect their conceit. This feeling has grown, however, and a very offensive superiority complex has supplanted their justifiable pride. Few are willing to comply with the simple regulations imposed on them. It should be wholly unnecessary, to point out that in their first year at the Institute they may expect to accede to some demands. Yet their insufferable airs in refusing to adapt themselves show only too plainly their attitude of denying any such responsibility towards the general school spirit.

We would urge that the Freshman Rules Committee of the Institute Committee make a survey which is sure to confirm these statements, if they are not already aware of this deplorable state of affairs. There has always been a laxity in the matter of the "Hello Rule", but more flagrant still has been this disregard of the tie rule. It is long past the time when mild action should be taken; it is essential that something drastic be done. We have known of the old fashioned "splash parties"; paddling is a considerable persuader; publication of the names of the offenders may do some good. But it is high time we had action!

VOLUME XLIX of THE TECH takes pleasure in announcing the following Managing Board, Associate Board and Staff for the coming year:

**Managing Board:** D. T. Houston, General Manager; W. F. Howard, Editor; C. Connable, Managing Editor; G. Smith, Business Manager. All these men are Class of '30.

**Associate Board:** R. Davis, News Editor; W. N. Currier, Sports Editor; G. M. Roddy, Advertising Manager; H. J. Truax, Treasurer; J. K. Minami, Circulation Manager. All these men are Class of '31.

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**Sports Writers:** P. A. Roberts '32.

**Reporters:** E. L. Clark '32, J. F. Crowther '32, J. B. Smith '32.

**Assistant Treasurer:** J. B. Tucker '31.

### OFFICES OF THE TECH

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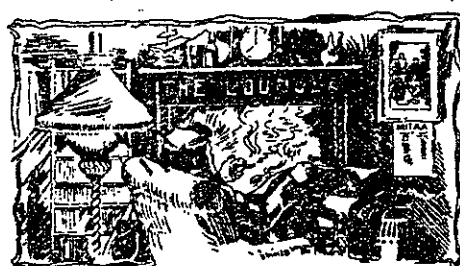
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The Lounge welcomes back those unhappy survivors who are to waste still more time here before finally leaving us. And the welcome extends further than the Lounge expected, for on looking about him on registration day, he carefully noted the return of numerous insipid-looking persons that seemed to exist for the sole purpose of furnishing Uncle Horace with pittance in five dollar lots. Nevertheless, the welcome is extended.

As he sat on the bench in the main lobby on Monday morning, comfortably soaking up sunshine and scanning the Herald, he smiled a vicious cynical smile, noting now and then a freshman with a worried look in his eyes hastening from the Bursar's office to the Dean's or back again. He folded up his paper in preparation to going to lunch as he meditated on what course he should shift to this time.

Speaking of freshmen, have you noticed the number of these conceited individuals who think that not wearing a freshman tie prevents people from suspecting that they are not men. Except for a few scattering newly-purchased ties, the Lounge noted an offensive absence of the freshman symbol. Listen, yearling, there are men who eat little boys that do not do as they are told. Last year several freshmen's ears were made to burn by publication of their names, and this is but a mild form of punishment compared with some suggestions that the Lounge could make to the Committee on freshman rules.

Upon debating which instructor to get for Applied, the Lounge was informed that Slave Driver Smith is not going to tolerate students shifting from other sections to his this term. Apparently he does not wish to have to deal with a deluge of students clamoring for admittance. By the number of men going around claiming to be glad that they could not get into his class, it would seem that they are either incurable Pollyannas or they find it easy to say sour grapes.

### THE EDITORIAL SPECULUM

The time has come for a new start. Last term's worries are behind us. We can neither add to nor detract from our record, for "The moving finger writes having writ, moves on." Today we are making a new beginning with a clean slate and stimulated effort. If we could begin every new day with the spontaneous vigor of the start on a new term, achievement would be just so much more swift and the satisfaction that much greater.

There are no ironclad rules on How to be Successful. But there are several on How Not to be Successful. Among the most prominent of these is lack of concentration. Lack of concentration is very closely allied to lack of interest. And the man who works at a job he is not interested in, is not a man—he is a slave. But whenever the slaves becomes interested in the job, he is no longer a slave. Therefore, why not let the struggle be to increase one's range of interests? Such increase is infinitely simpler than slavery, and vastly more satisfactory.

The mistakes of last term have already been dignified into that valuable possession known as Experience and are recent enough to be potent in the next four months.

Hockey, as played by the colleges, is more dangerous than football or any other sport is a fact that is brought out by Joseph Stubbs, Harvard Hockey Coach, whose article, "Intercollegiate Hockey in the East," appears in the February issue of College Humor.

"A doctor is in attendance at all practices and games," says Coach Stubbs, "and he has a most complete equipment of medical supplies. It might be noted that we had two very severe injuries from skate cuts last season, both of which required prompt needlework. One of the visiting players dislocated his shoulder in a game, was etherized, his shoulder reset, and strapped up without leaving the building. There are very few practices or games where the doctor leaves without having a call for his services. Hockey is a dangerous game."

## Professor Samuel C. Prescott Works To Find How To Make Perfect Coffee

Has "Tasting-squad" for Finding What Blends Please the Public Palate

"Coffee, next to sugar, is the most important product used in connection with foods which is imported to temperate zones from tropical countries," said Professor Samuel C. Prescott '94, in a report of his investigation published by the Joint Coffee Trade Publicity Committee.

Professor Prescott has compiled data from investigation of over seven hundred articles of previous writers, and he himself has delved deeply into the study of coffee. The plant is apparently a native of Abyssinia and other parts of Africa, but was introduced into Arabia in the 15th century. The beverage immediately became popular with all classes and from Arabia both the plant and the custom of coffee drinking spread throughout the Eastern Hemisphere and eventually to the Americas.

### Describes the Coffee Tree

The coffee tree is a small tree growing to a height of ten or fifteen feet. It produces white and very frequent flowers in the axils of the leaves, these flowers giving place to the fruit which is about the size of a small cherry and is red or purple when ripe. Normally each of these berries produces two seeds so situated that they are flattened together on the inner side, although in some plants one of these seeds is abortive and the other develops into a rounded body practically filling the whole space ordinarily occupied by two. The coffee bean is the seed of the coffee tree. The structure of the seed is interesting, being made up of several layers of cells of different shapes in which the reserve foods for the embryo plant when it develops are stored.

The importance of coffee as a beverage material is very largely due to the fact that it contains considerable portions of the so-called alka-

loid caffeine which has markedly stimulating properties and may be regarded as the most significant of the ingredients in the seed.

A large number of papers bearing on the effect of coffee on the individual have been reviewed. The majority of these indicate that the use of coffee in moderate quantity is without harm to the consumer, although it is established that some individuals are so sensitive as to be readily affected adversely by its use. It was also pointed out that coffee should in general be taken with other foods in order to get the recuperative power over the muscles of a fatigued organism and the proper exhilarating action on the mental processes.

### Forms Testing Squad

Professor Prescott investigated also the making of coffee, in this line of investigation he was confronted with a highly important question this was "What is good Coffee?" There is no such thing as a coffee gauge, to say whether the coffee is good or bad. Generally, the flavor of coffee that will please one person will not please the next for the human likes and dislikes of flavor vary as widely as they do for color and sound. To answer this question Professor Prescott organized a testing squad, made up, primarily, of the secretaries employed at the Institute, and everyday at noon this group assembled and gave their opinions as to the best of the several coffees that Professor Prescott had prepared for that day.

The result of these tests indicate that coffee most pleasing to the average person can be best obtained by using utensils that are not made of metal. The water should not be very alkaline, and the temperature should not exceed ninety-five degrees centigrade. The time of infusing should not be over two minutes.

## Salesmen Wanted!

Lively men wanted to sell THE TECH. Men having free hours on Monday, Wednesday, or Friday report to 302 Walker Memorial for particulars.

J. K. MINAMI  
Circulation Manager

THE CURRENT STYLES IN  
CLOTHES, HATS, SHOES,  
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# RELAY TEAM WINS AT K. OF C. MEET

## Bolanos and Jameson Won Bouts in Navy Meet Last Saturday

### Engineers Lost Fast Race To Harvard Relay Team At Annual B. A. A. Meet

During the holidays the Technology track team participated in two indoor meets, competing with the best collegiate and amateur talent in this part of the country. The relay team gave a good account of itself, winning from the Maine team and losing a hard race to the Harvard team, which was easily the fastest collegiate four in either meet. The individual winners were Maurice Herbert '30 and Phil Benjamin '31.

Tied for First Place in B. A. A. High Jump



P. S. Benjamin '31

### CREW ACTIVITIES START WITH CALL FOR CANDIDATES

Early Practice Began Yesterday on Machines—Barge Will Soon be in Use

#### VARSITY IN GOOD SHAPE

Prospects Are Bright for the Spring Season—Varsity Loses Three

Intensive crew practice began yesterday afternoon with the call for candidates by Head Coach Bill Haines. Many of last year's Varsity eight and numerous candidates from the various freshman crews reported during the afternoon. All men were given a short workout and organized into groups which will row regularly on the machines. At present there is still a small amount of ice on the river so that it will probably be the latter part of next week that the men will be out in the sixteen oared barge.

As has formerly been the custom the Varsity crews will practice at 5:00 o'clock and the one hundred and fifty pounds eights will follow at 5:30 o'clock.

#### Varsity Men in Condition

Many of the Varsity men have kept up practice since the crews finished rowing last November so that Coach Haines hopes to have the Varsity boat synchronized in a minimum time, devoting the major part of the time to the three new men necessary to fill up the Varsity boat.

The candidates for the other crews are expected to report during the course of the week as intensive training will begin immediately. Coach Haines stressed the importance of the men reporting at once because of the small amount of time available after classes and he intends to overcome this handicap by prompt registration.

Because of the unusual interest shown by the men last Fall when three full Varsity crews reported for daily practice Coach Haines expects to have one of the largest crews in the history of rowing at the Institute from which to select the first eight this spring. A large majority of the men from

On Saturday, January 26, the Cardinal and Gray runners assisted at the first track meet to be held in the new Boston Garden, when the Boston K. of C. staged the eighth annual Prout Memorial games. In spite of the large number of competitors for honors from all over New England, M.I.T. managed to carry away a fair share of the laurels.

#### Relay Team Defeats Maine

Due to a late change in the plans, the Engineers were matched with their old rivals from the University of Maine, instead of with Brown and Bowdoin as had been scheduled. The relay team as it was finally organized consisted of Reynolds, Captain Hallahan, Berry, Ladd, and Lappin as an alternate. The regular team, composed of the first four men, had a comparatively easy time with the Maine speedsters and made fairly good time in the race.

Reynolds, the lead-off man, had a slight advantage over his opponent at the end of his quarter. The next two runners, Hallahan and Berry, piled up a safe lead with little trouble, and Ladd wound up the race with many yards to spare. The Maine team consisted of Berensen, Hardy, Lathrop, and Niles, names which are familiar to the followers of collegiate track affairs.

#### Herbert Wins Handicap Event

Maurice Herbert, one of the best distance men on the Varsity, won the three-quarter mile run against a held of nearly forty entrants. With the aid of a twenty-eight yard handicap, he managed to take the lead after about two laps and hold it for the remainder of the race. Lindsay, the Maine star, made a fighting attempt to catch Herbert, but his handicap of eight yards was not enough and he fell short by a considerable margin. The time for the race was 3:18 1/5.

At the fortieth annual meet of the B. A. A., which was held in the arena on February 2, the Technology team did its usual type of work but had to compete with talent that was somewhat better than the preceding week. Harvard, the customary rival at this meet, turned in the best time of the evening and the race was no picnic for them. The same team ran in this meet, Reynolds losing the first tussle by three yards. Ladd ran an even race with his Harvard opponent and the margin remained the same at the end of the first half. Berry started slowly and lost a little ground, but he stepped out and passed his man before the first lap was over. On Berry's second lap Harvard again took the lead and held it, though Hallahan put up a good fight. The time for this race was 3:31 1/5.

#### Benjamin Makes Good Jump

In the high jump everyone started at scratch, and the field was made up of stars and veterans at the game. Phil Benjamin made a fine jump of six feet, and in so doing, tied for first place with Charles Major of New York, Seekins of Colby, and Stafford of the B. A. A. A jump-off was held for the gold medal which had been offered as a prize, and was won by Major, who is one of the best jumpers in the country today.

Fry, (N) defeated Orleman (T). Judges' decision after three rounds. One hundred twenty-five-pound class—Ballenger (N) defeated Lamorretti (T). Judges' decision after three rounds.

One hundred thirty-five-pound class—Capt. Bolanos (T) defeated Foley. Judges' decision after three rounds.

One hundred forty-five-pound class—Jameson (T) defeated Williams (N). Decision after three rounds.

One hundred sixty-pound class—Capt. Ricketts (N) won by forfeit from Franks (T).

One hundred seventy-five-pound class—Moret (N) won by technical knockout in the second round from Horton (T).

Unlimited class—Swan (N) won by technical knockout in the first round from Scheuren (T).

### ENGINEER BOXING LOSE FIRST MEET TO NAVY MITTMEN

Cardinal and Gray Takes Two Bouts, Losing Meet by Score of 5-2

#### FORFEIT 160 POUND BOUT

Bolanos and Jameson Win Over Middle Opponents by Decision

Meeting its first opponent, this season, the Technology boxing team lost to the Navy mittmen last Saturday at Annapolis by the score of 5-2. The Cardinal and Gray team were victorious in the 135 and in the 145 pound classes, the Navy team taking the five other bouts. Captain Bolanos, and Jameson won their bouts by decision, while the Middies took two by decisions, two by technical knockouts, and one by forfeit.

In the first match, Orleman, 115 pound Technology man was defeated by Fry on a judges decision after three rounds of hard fighting. Although Orleman appeared to be faster, the Navy man seemed to be in better condition, and was able to take the decision in the end.

Lamorretti lost to Balenger of the Navy in the 125 pound class in the second bout of the evening by the judge's decision after three rounds. Lamorretti was fast, and ducked in and out scoring on his man in the early stages, but he too lost to his better conditioned opponent.

#### Bolanos Wins a Decision

Captain Bolanos, 135 pound Engineer mittman, defeated his Navy opponent, Foley, in the hardest, and most exciting battle of the evening. Captain Bolanos was fast, stepping in and out, jabbing constantly at his opponent, and it was finally by these tactics, that he was able to win the first M. I. T. victory. Captain Bolanos was in fine condition, defeating one of the Navy's best men, and promises to be intercollegiate champion in the 135 pound class.

Technology tied the score when Jameson, the M.I.T. 145 pounder, defeated Williams, 135 pound Intercollegiate Champion, in three rounds of hard boxing. Jameson, who was constantly the aggressor, was able to send his man to defeat by stiff left jabs, followed by crushing rights.

By a forfeit, the Navy was able to take a lead in the 160 pound class. Franks who was scheduled to meet Captain Ricketts of the Navy was unable to enter for Technology.

#### Horton and Scheuren Lose

In the 175 pound class, Horton of M.I.T. was defeated by Moret by a technical knockout in the second round. Horton, bobbing and weaving, was unable to duck the left jab, and swift right of Moret, and although Horton showed plenty of class, he met defeat at the end of the second round when Moret sent in a barrage of lefts and rights.

To end the meet the Navy took the last bout also by a technical knockout. Scheuren has had little chance to get into shape, having had only a few weeks practice before the meet. After attempting some wild rushes which the Navy man stopped effectively, Scheuren went twice to the canvas on hard rights, and the match ended, the Navy man being credited with a technical knockout, making the final score 5 to 2.

One hundred fifteen-pound class—

last year's jayvee and frosh crews are back and will be fighting for places on this year's Varsity boat. Three men were lost by graduation last June, while Captain Ed Tittman, Phil Holt, Rolf Zurwelle and Chick Dolben are still here and eligible.

#### FRESHMAN NOTICE

There are a few vacancies in the Freshman Assistant Track Management Competition which leads ultimately to the position of Track Manager and Cross Country Manager. competition lasts until May. Men who are interested should report at the track house this week.

"Aviation in the colleges has been progressing with leaps and bounds," says Joe Godfrey, Jr., in the February College Humor. "The Harvard Flying Club at Cambridge has its own plane and is used daily by its student members. Each year a new plane is purchased by the club members and so successful has been the operation of

the club itself that its members now offer to help the students at other universities to form a similar organization. At Yale the Flying Club will undoubtedly buy a plane this year, and other schools soon to follow are New York University, M. I. T., Georgia Tech, Stanford, California, Michigan, Illinois, and Minnesota. Whatever there are courses in aeronautics—and there are about seventy large institutions now offering such courses—aero and flying clubs are being formed. The great interest now shown in aviation in the colleges is resulting in the taking of special courses in flying by students who wish to become pilots. Students will soon fly their own planes."

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There are jobs for Sophomores.

There are jobs for Freshmen.

## DON'T BE A GRIND

Spend Your Spare Time in Valuable Recreation

THE TECH Spring competition is announced—Inquire at THE TECH News Room or Business Office in Walker as soon as possible.



## OFFICIAL BULLETIN

## FACULTY CLUB

Lecture in the Walker Memorial, Faculty Dining Room, by:

Mr. Bruce G. Leighton

with the Wright Aeronautical Corporation

Subject: "Present Limits of Aviation"

## ELECTRICAL ENGINEERING

The following speaker will deliver a demonstration lecture in Room 10-250:

Dr. J. O. Perrine

of the American Telephone and Telegraph Co.

February 11, 4-5 P.M.

Subject: "Television"

This lecture is open to all students and staff of all departments. A series of lectures will be given from 3:00-4:30 P.M., in Room 10-275, beginning February 5 to 26, inclusive. The speaker will be:

Professor Reinhold Rudenberg

Chief Electrical Engineer of the Siemens-Schuckert Works in Berlin

The lectures for this week will be given on the following dates:

February 6

Subject: "Main and Stray Fields in Alternating-Current Machines II."

February 8

Subject: "Harmonic Fields and Pulsation-Losses in Alternating-Current Machines."

## CALENDAR

Wednesday February, 6

9:00—THE TECH competition commences.

8:00—Talk by George Young, Huntington Hall.

12:00—Faculty Club Meeting, Faculty Dining Room, Walker.

12:30—Affiliated Technical Societies, Chamber of Commerce.

Friday, February 8

7:00—Musical Clubs Concert, Salem Normal School.

Saturday, February 9

1:00—Conclusion of Technique Signups.

Monday, February 11

4:00—Lecture on Television by Dr. Perrine, Room 10-250.

## Notices and Announcements

## TECH SHOW

Measurements for all members of the cast and chorus who have not already received theirs will be taken this week in the show office in Walker every afternoon. Costumes will be made up during exams. A piano player is needed for the Tech Show orchestra. Candidates should report to the music manager, Fleisher, afternoons after five in the office.

## COMBINED MUSICAL CLUBS

Positions are open for two men on the personnel of the Combined Musical Clubs, according to an announcement made by the management.

A trombone player is needed by the Techonians, and tryouts for this position will be held in the East Lounge of Walker at five o'clock today and at three o'clock on Saturday. Men desiring to tryout, and unable to attend these tryouts should get in touch with S. A. Ackiss '30 as soon as possible.

The Banjo Club wishes to secure a pianist, and tryouts will be held at the regular rehearsals in the East Lounge of Walker on Tuesdays or Thursdays at 5 o'clock.

## PROF. TUCKER GIVES COURSE XVII LECTURES

In the Course in Building Construction during the coming term, Professor Ross F. Tucker '92 will give a series of lectures on Job Management and Personal Relations in Room 5-226 every Wednesday afternoon at 4 o'clock.

These talks, which will be followed with discussions, will be drawn largely from Professor Tucker's long experience as a builder, and are intended to throw some light upon those personal contacts and relationships that constitute the business of building, and possibly to offer some constructive suggestions that will help the young graduate to shape his course so as to avoid some of the mistakes that often result from a lack of experience.

Beginning today the following topics will be discussed: General Observations, Superintendence, Job Organization, The Handling of Men, Organized Labor, Credit, Ethics, Business, Business Safety in Building, Illustrated, and The First and The Last. While these lectures are scheduled for students in Building Construction, students from other courses are welcome to attend, if they are interested.

## NEW FIELD STATION OPENS IN ROCHESTER

A new field station at the plant of the Rochester Gas and Electric Company, Rochester New York was recently opened by the department of Chemical Engineering under the supervision of Theodore A. Mangelsdorf '26 who has had experience in managing other stations.

The Chemical Engineering Department also operates stations at the Cambridge Gas Light Co., Edison Electric Illuminating Co., at Weymouth, Bethlehem Steel Corporation at Buffalo, Iroquois Gas Corporation Mineral Springs, and the Tidewater Oil Co., Bayonne, New Jersey.

## In Memoriam

Charles E. Nettleton, G, died on January 28 from pneumonia after being sick in the Institute Infirmary for ten days. Nettleton was graduated from Yale in 1928 and was taking a post-graduate course in Course X-A at Technology. His home was in Rockville Connecticut.

## Humidity Kept at Healthy Standard By New Ventilator

## Experiments in Building Three Show Remarkable Change in Atmosphere

No longer will the Technology student suffer from lack of moisture when he is in the class-room. This has been assured by the highly successful performance of a newly-installed system of ventilation in Building 3. It is planned to equip the other buildings with the same device.

It was not so long ago when someone began to think about the condition, which, for an institution devoted to science was badly neglected. It was decided that something radical must be done, especially in the case of the heat treatment laboratories, where the electric arcs reduce the small percentage of moisture in the air to almost nothing. Several hygrometers were set about in different places, and their charts recorded the changes day and night. It was found that the average humidity was about 30 percent, which is much too small for healthy existence.

The remedy was not such a complicated affair as it might seem. At present the method of ventilation is to bring in air from the outside, pass it over hot pipes until it is about 62 degrees. Then it passes through a fan room and enters the rooms near the floor. Another opening near the ceiling draws off the bad air. Radiators in the rooms adjust the temperature to the requirements of the individual users.

The solution of the problem was made by the use of an apparatus in the fan room. This apparatus consists of a copper tank about two feet wide, two feet deep, and five feet long, in which water is kept up to a fixed level by a float arrangement. Steam is bubbled into this water, the amount being regulated by a hygrometer. When the humidity of the air is low the steam is passed through the water, and this moistens the air to the required amount. In the last three weeks the percentage in Building 3 has been kept in the neighborhood of 55 percent. (100 percent being the saturated condition.)

Since the apparatus has shown itself so efficient, it is proposed to install one in each of the nine fan-rooms in the Institute Buildings.

## 13 MEN ENJOY T.C.A. OUTING AT JAFFREY

## Professor Peabody '10 Tells of His Mountain Trips

Technology Christian Association held its annual mid-year outing from January 26 to January 30 at Jeffrey, N. H. The lovers of mountain climbing and winter sports were 13 in number and were headed by Professor Dean Peabody '16, and M. Richard Boyer '29. The group climbed Mt. Monadnock which is 3200 feet high and spent the rest of the four days in and about their camp.

Professor Peabody '10, who is president of the Appalachian Mountain Club talked to them about his trips in the French and Swiss Alps and also aided in making the trip a success. Those who went are as follows: M. Richard Boyer '29, Alfred Cavileer '32, James Bryant '30, Fung K. Chau '31, C. Robert Dexter '27, Chik H. Lau '31, Lowell M. Moses '30, Richard W. Pratt '32, Professor Dean Peabody, Jr., '10, Stanley S. Rudnick '32, Edgar W. Shulenberg '32, William B. Thomas '29 and Otto E. Wolfe '29.

## Jim Alexander to Leave Hospital in Two Weeks

Jim Alexander, the janitor of the track house and a good friend of the boys, went to the hospital last Saturday with appendicitis and a growth on the stomach. From the reports of the doctors he is expected to be out in two or three weeks.

## Corporation XV Sees New York Establishments

## Private Tug Takes Group Around Bay and Hudson Bridge is Seen

(Continued from Page 1)

was certain of good operation when it left the factory.

The group left for New York, Monday night, and stayed at the Hotel Bristol. The Laboratories of the Bell Telephone Company were visited the first morning and experiments and demonstrations had been prepared for the students. The system of the investigations in telephony and cable communication were explained and they were shown the development of communication in the museum which is in the building.

## Visit Soap Company

After a look at the New York Stock Exchange in its busiest hour, the group went to Hoboken to the Colgate Soap Company. Here the students watched Palmolive soap, perfumes, powders, rouge, and washing soap evolve from their chemical components and after the visit the men smelt sweetly from the atmosphere in which they had been walking.

The New York, New Haven, and Hartford Railroad furnished a tug the following morning and the Technology men rode around the harbor and examined the methods of transportation throughout the harbor. In riding up the Hudson River the tall towers of the new suspension bridge at 178th Street could be seen.

The last visit was to the J. Walter Thompson Advertising Agency, the office of which is so decorated that one does not think he is on business premises. After an instructive speech by Mr. Mims, the head of the concern, the various departments were viewed. The trip ended officially at the conclusion of this visit but some of the men stayed to see the metropolitan shows.

## JUNIOR PROM HAS 125 SIGNUPS NOW

## Patrons and Patronesses For Annual Promenade Are Announced

(Continued from Page 1)

is expected that more than 300 will be present. There were approximately 275 at the ball last year.

As patrons and patronesses for the Prom the committee announces the following: President Samuel W. Stratton, Mr. and Mrs. Elihu Thomson, Mr. and Mrs. Edwin S. Webster, Dr. and Mrs. Francis H. Williams, Mr. and Mrs. Francis R. Hart, Mr. Charles Hayden, Mr. and Mrs. Otto H. Kann, Mr. and Mrs. Arthur D. Little, Mr. and Mrs. A. Lawrence Lowell, Mr. and Mrs. Charles T. Main, Mr. and Mrs. Charles A. Stone, Mr. and Mrs. Albert F. Bemis, Mr. and Mrs. Pierre S. DuPont, Mr. George Eastman, Governor and Mrs. Frank G. Allen, and Professor Charles Spafford.

## In Memoriam

Andrew Brink '30 was killed at Pensacola, Florida on February 4 when the plane in which he was soloing crashed from a height of 2,000 feet. Brink was a member of Course XVI and was on a year's leave of absence. While at the Institute, he was a member of the wrestling team. His home was in Wrentham, Mass.

## CLUBS TO ENTERTAIN SALEM NORMAL GIRLS

Girl students at the Salem Normal School will be entertained next Friday evening by the Glee Club, the Instrumental Club, and the Techonians. A combined program will be given by the girls and the members of the Clubs.

An xylophone solo by Gardner Harvey '32, accompanied by Thomas DeMarco '30 will be the feature act on the program.

Buses for Club members will be ready in front of Walker at 4:45 o'clock and will leave promptly at 5 o'clock. It is essential that all members who attend wear their Club ribbons.

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That was the position I was in when your samples of Edgeworth came. It was like a voice from above when I opened the package and got the old pipe steaming.

I have smoked various brands of tobacco for the past fifteen years, but never in my life have I found a tobacco at any price that will equal Edgeworth. It does not bite the tongue, and a beautiful aroma follows. With the good old friend pipe and a can of Edgeworth you can dream of the rainbow's end.

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